

PATENT ABSTRACTS OF JAPAN

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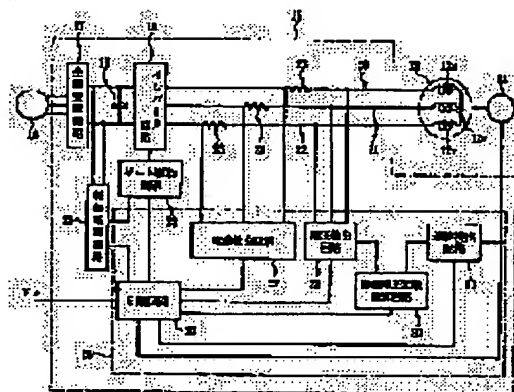
SHIBATA HISANORI

(54) DRIVING DEVICE FOR BRUSHLESS DIRECT-CURRENT MOTOR

(57)Abstract:

PROBLEM TO BE SOLVED: To automatically measure induced voltage constant of a brushless direct-current motor by calculating the induced voltage constant from the value of induced voltage detected by a voltage detecting means and a speed detected by a speed detecting means, when the application of voltage to the brushless direct-current motor is interrupted.

SOLUTION: An induced voltage constant calculating circuit 31 reads a terminal voltage, that is an induced voltage E of a brushless direct-current motor 12, detected through a voltage detection circuit 29, and further the speed R of the brushless direct-current motor 12 detected through a speed detection circuit 30. The induced voltage constant calculating circuit 31 calculates the induced voltage constant from a value E1 of the read induced voltage E and the value R1 of the read speed R using the expression 'induced voltage constant = $E1/R1$ ', and stores it in the memory of a control circuit 28 as a control parameter. Thus, the induced voltage constant is automatically determined from the value E1 of the induced voltage E produced, when the application of voltage to the brushless direct-current motor 12 is interrupted and from the value R1 of the speed R at that time.



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